

Standard Brine Building w/ Outdoor Containment

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OFFICE OF FACILITIES SUPPORT

800 LINCOLN WAY, AMES, IOWA 50010

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OFFICE OF FACILITIES SUPPORT

FACILITIES ENGINEER	DATE	TELEPHONE: (515) 239-1443
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FIELD FACILITIES MANAGER	DATE	TELEPHONE: (515) 239-1627
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FACILITIES DIRECTOR	DATE	TELEPHONE: (515) 239-1327
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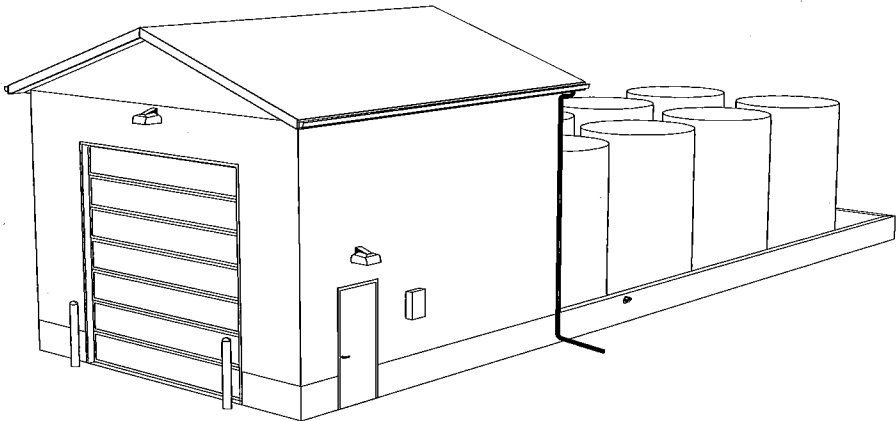
I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly registered architect under the laws of the state of Iowa.

Printed or typed name _____

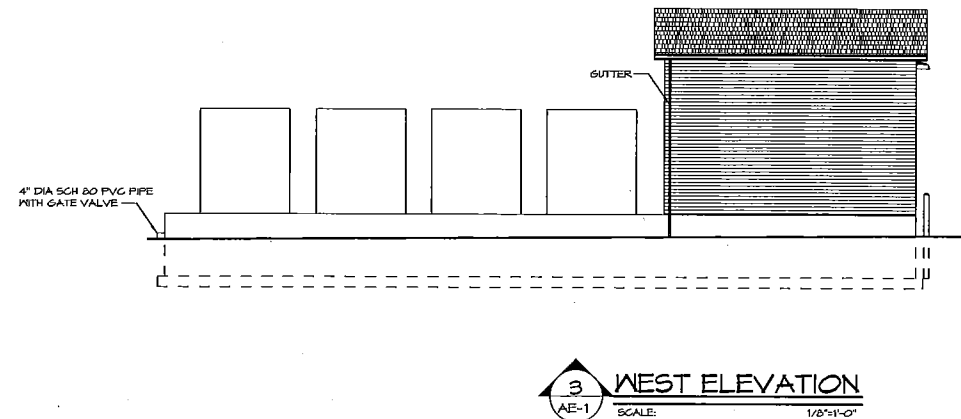
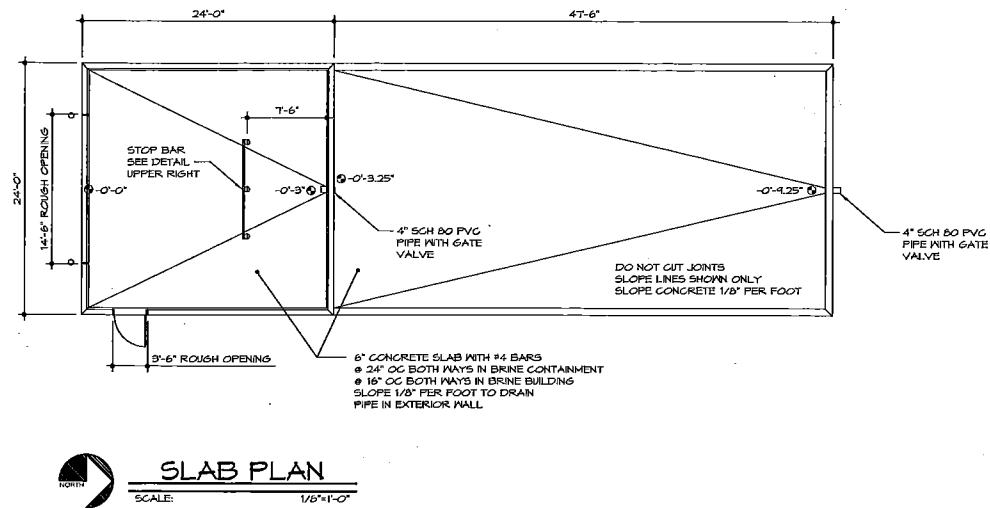
Signature _____ Date _____

Registration expires _____ Date issued _____

Pages or sheets covered by this seal: _____



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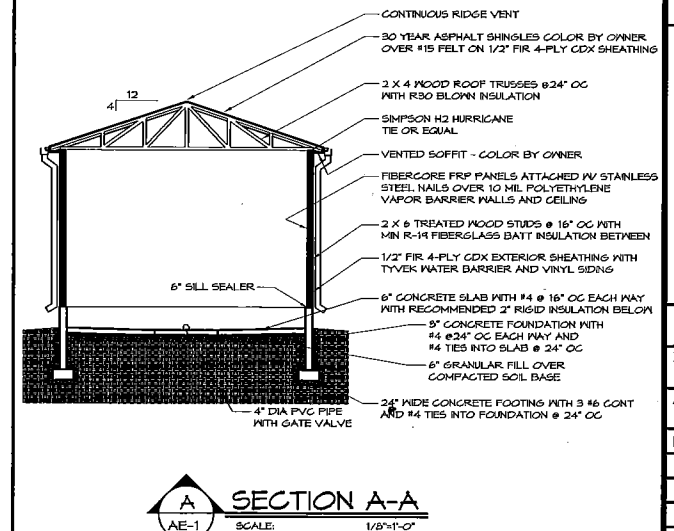
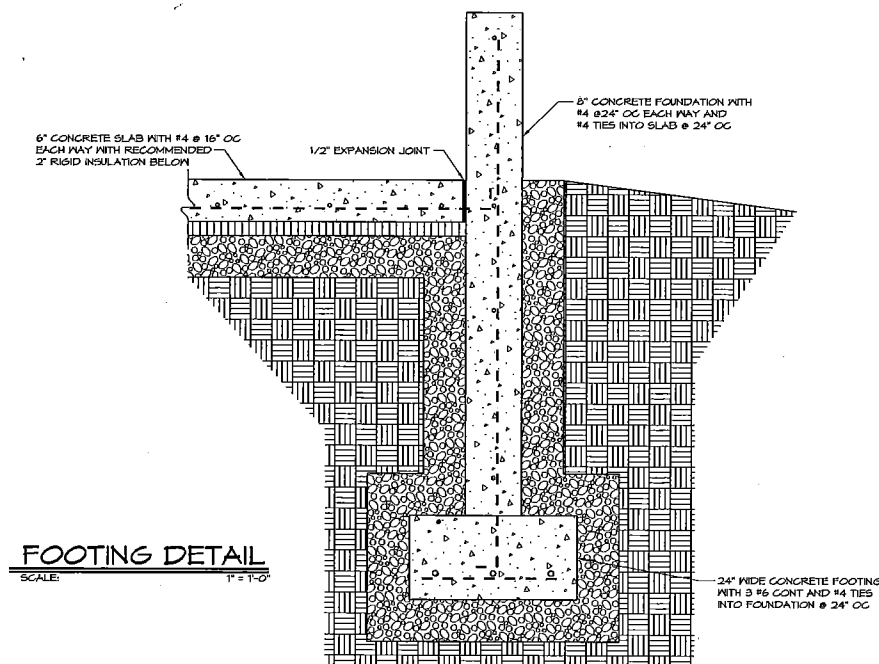
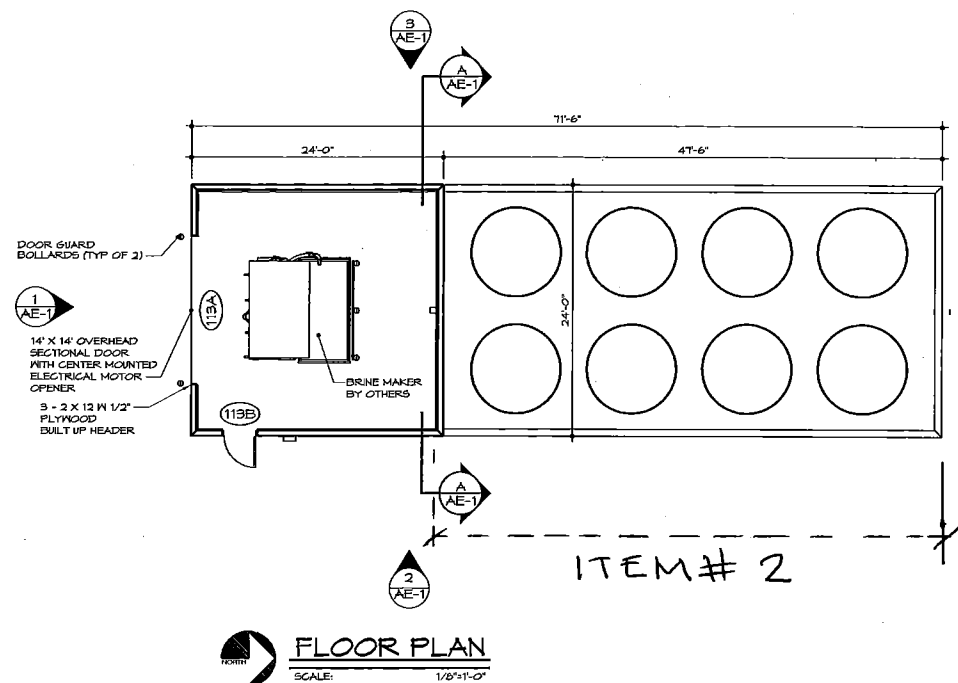
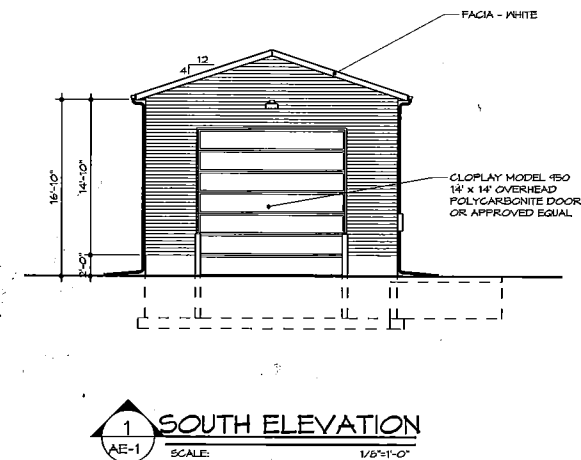
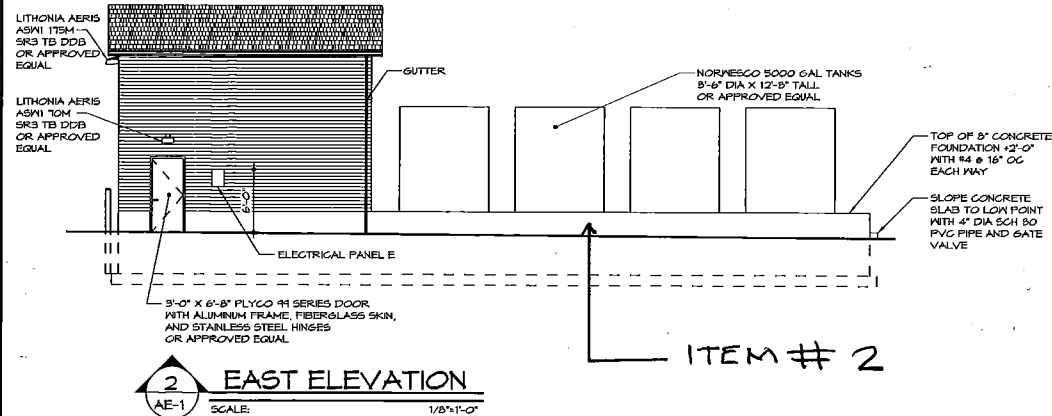
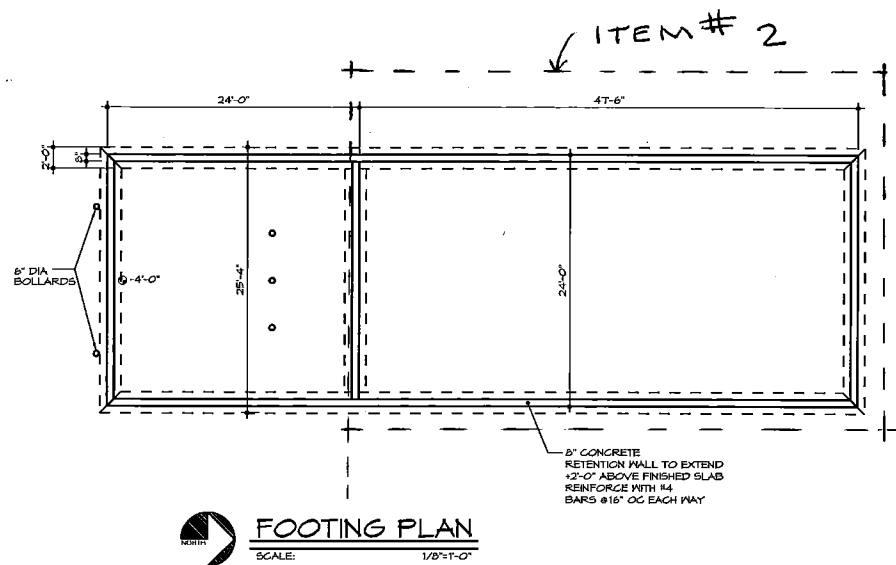
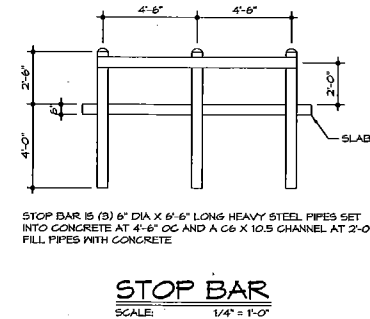
NOTES:

GENERIC BRINE BUILDING PLANS
-ORIENTATION OF BUILDING MAY BE DIFFERENT THAN INDICATED ON THESE DRAWINGS
-SIZE OF CONTAINMENT AREA MAY VARY ACCORDING TO STORAGE NEEDED AT SITE
-VERIFY HOW MANY GALLONS OF STORAGE ARE NEEDED
-EACH TANK HOLDS 5000 GAL AND IS 8'-6" DIA AND 12'-6" TALL AND ADJUST BRINE CONTAINMENT AREA AS NEEDED SEE BELOW

DIMENSION IS FROM OUTSIDE OF BUILDING TO OUTSIDE OF CONTAINMENT WALL
14'-6" FOR FIRST TWO TANKS
ADD 11'-0" FOR EACH ADDITIONAL TWO TANKS NEEDED

2 TANKS = 14'-6" 6 TANKS = 36'-6" 10 TANKS = 58'-6"
4 TANKS = 25'-6" 8 TANKS = 47'-6" 12 TANKS = 69'-6"

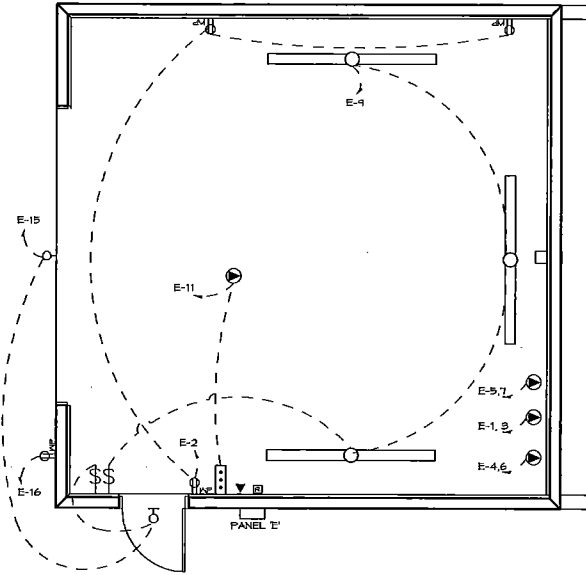
AN EXAMPLE OF WHAT THESE DIMENSIONS REPRESENT CAN BE SEEN ON FLOOR PLAN THIS SHEET WHERE 8 TANKS = 47'-6"



DISTRICT:	COUNTY:	STATEWIDE
PROJECT NUMBER:	STANDARD BRINE BUILDING W/ OUTDOOR BRINE STORAGE	
PLANS & DETAILS		
Iowa Department of Transportation OFFICE OF SUPPORT SERVICES 800 LINCOLN WAY AMES, IOWA 50010 515/239-1299	DATE: APRIL 2012 DRAWN BY: STEINBERG APPROVED: APATIGA REVISIONS:	SHEET: 1 OF 2 A-1

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PANEL "E" 120/208-VOLT, 3-PHASE, 4-WIRE W/GROUND 225-AMP MB 24 SPACE				FEEDER WIRE: #3 AWG THWN LOCATION: STORAGE BAYS, WEST WALL MOUNT: SURFACE				NOTES: BRINE BUILDING BRANCH CIRCUITS UNDERGROUND TO BRINE BUILDING			
CKT NO.	LOAD DESCRIPTION	LOAD AMPS	BREAKER P	PHASE A	AMPS B	AMPS C	BREAKER P	LOAD AMPS	LOAD DESCRIPTION	CKT NO.	
1	5-HP LOAD OUT PUMP	15.6	2	50	21.6		20	1	6.0	INTERIOR OUTLETS	
3	—	15.6	2	50		31.0	30	2	15.6	5-HP LOAD OUT PUMP	
5	5-HP BRINE PUMP	15.6	2	50		31.0			15.6	—	
7	—	15.6	2	50		31.0			15.6	—	
9	INTERIOR LIGHTS	3.2	1	20		3.2			—	SPACE	
11	ON DOOR OPERATOR	7.5	1	20		7.5			—	SPACE	
13	SPACE	—	—	—		—			—	SPACE	
15	EXTERIOR LIGHTS	1.6	1	20		3.3	20	1	1.5	EXTERIOR OUTLET	
17	SPACE	—	—	—		—			—	SPACE	
19	SPACE	—	—	—		—			—	SPACE	
21	SPACE	—	—	—		—			—	SPACE	
23	SPACE	—	—	—		—			—	SPACE	
PANEL TOTALS					31.0	31.5	36.5				



ELECTRICAL PLAN KEY

- 8'-0" FLUORESCENT
- SPECIAL OUTLET
- DUPLEX OUTLET @ 42" AFF
- TELEPHONE OUTLET
- RADIO OUTLET
- CIRCUIT HOME RUN
- SWITCH
- GARAGE DOOR OPENER

Iowa Department
of Transportation
OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY
AMES, IOWA 50010 (515) 239-1299

DATE:
APRIL 2012
DRAWN BY:
STEINBERG
APPROVED:
APATIGA
REVISIONS:

SHEET:
2 OF 2
E-1

STANDARD BRINE BUILDING W/ OUTDOOR BRINE STORAGE

COUNTY: STATEWIDE

DISTRICT:

ELECTRICAL PLAN & DETAILS

PROJECT NUMBER: